



ENABLING OBJECTIVES

- EXPLAIN the purpose & usage for the following types of installed SP phone circuits:
 - Primary
 - Auxiliary
 - Supplementary
- EXPLAIN the purpose & operation of emergency SP phones

EO'S CONTINUED

- EXPLAIN how to restore comms between two different stations after loss of all installed phone circuits using the Casualty Power & Casualty Comm DC Diagram
- EXPLAIN how to restore comms between two different stations after loss of primary phone circuit using the Communication Directory DC Diagram

Interior Communications

- Various I/C circuits are essential
- Allows communication to keep ship afloat under casualty conditions
- Allows communication to move ship from danger area

SOUND POWERED PHONE CIRCUITS

- Principal means of comms between ship controlling stations
 - Bridge - After Steering
 - DCC - DCRS
- Require no external source of energy
 - voice generates electrical current in telephone

SOUND POWERED PHONE CIRCUIT CLASSIFICATIONS

- ① PRIMARY
- ② AUXILIARY
- ③ SUPPLEMENTARY
- ④ EMERGENCY

PRIMARY CIRCUITS

- Provide comms between stations for control of & operating functions associated with ship, weapons, aircraft, engineering & damage control

PRIMARY SP EXAMPLES

- **JA:**
 - Captain's Battle Circuit
- **1JV:**
 - Maneuvering & Docking
 - Changes in engine speed, line handling
- **2JZ:**
- **Stability & DC**
 - Receive *and* send reports
- **4JZ**
 - Forward Repair Circuit
 - Repair 2
- **5JZ**
 - After Repair Circuit
 - Repair 3
- **7JZ**
 - Propulsion Repair Circuit
 - Repair 5

AUXILIARY SP CIRCUITS

- Provide an **Alternate** Means of Comms in event of Damage to Associated Primary circuit
 - **XJA**: Auxiliary Captain's Command
 - **X1JV**: Auxiliary Maneuvering Circuit
 - **X2JZ**: Auxiliary Stability & DC Circuit

SUPPLEMENTARY SP CKTS

- Provide comms for subordinate control, operating & service functions.
- Used to **enhance** comms
 - 2JV: Engineer's ckt (Engines)
 - 3JV: Engineer's ckt (Boilers)
 - 5JV: Engineer's ckt (Electrical)

EMERGENCY SP CKTS

- Provide means for establishing comms after casualty has occurred to installed circuit
 - **X40J**: Casualty Communications
- Control of emergency equipment
 - **X50J**: Fog Foam circuit
- May not be fully installed
- May have to be rigged

ELECTRICALLY POWERED CIRCUITS

- Provide fast & direct means of comms between stations
- Provide one-way or two-way comms
- Must be energized from electrical source to work

ELECTRICALLY POWERED CIRCUITS

- ANNOUNCING (**ONE-WAY**)
 - 1MC: GENERAL ANNOUNCING
 - 2MC: ENGINEER'S ANNOUNCING
 - 3MC: HANGAR DECK
 - 5MC: FLIGHT DECK
- INTERCOMMUNICATION SYSTEM (**TWO-WAY**):
 - 4MC: DC/CCS
 - 20MC: CIC
 - 21MC: CAPTAIN'S COMMAND
 - 26MC: MACHINERY CONTROL

ELECTRICALLY POWERED

- SHIP'S SERVICE TELEPHONE
J CIRCUIT:
 - REPAIR PERSONNEL SHOULD NOT RELY ON THEM TOO MUCH
 - MAY HAVE BATTERY BACKUP



CASUALTY POWER & **CASUALTY COMMUNICATION** DC DIAGRAM

- Emergency circuit - **X40J**
- Permanently installed components:
 - Risers with casualty comm terminal at end with phone jax
- Portable components:
 - “***Salt and pepper***” line or “***orange***” line
 - 200 Feet of communication wire
 - Emergency communication kit
AEL 2-880044246/4247

MOB-D-4-SF EMERGENCY INTERIOR COMMUNICATION

- Train S/P talkers, IC, and repair personnel in restoring interior communications
- How alert are S/P talkers to loss of communications
 - One minute to report
 - Familiarity with other circuits
 - Rigging of X40J

SUMMARY

- SP PHONE CIRCUITS
 - PRIMARY
 - AUXILIARY
 - SUPPLEMENTARY
 - EMERGENCY
- DC WIFCOM
- EMERGENCY SP PHONE CIRCUITS
- CASUALTY POWER & **CASUALTY COMMUNICATION** DC DIAGRAM
- COMMUNICATION DIRECTORY DC DIAGRAM

QUESTION #1

- WHAT COLOR ARE THE CASUALTY COMMUNICATION RISERS AS SHOWN ON THE “CASUALTY POWER & CASUALTY COMMUNICATION” DC DIAGRAM?
- ANSWER:

BLUE

QUESTION #2

- WHAT IS THE DIFFERENCE BETWEEN AN AUXILIARY CIRCUIT AND A SUPPLEMENTARY CIRCUIT?
- ANSWER:
- **AUX**: ALTERNATE MEANS OF COMMS IF PRIMARY CIRCUIT OOC;
- **SUPPLEMENTARY**: SUBORDINATE CONTROL, ENHANCES COMMS

QUESTION #3

- WHAT IS AN EXAMPLE OF AN EMERGENCY PHONE CIRCUIT?
- ANSWER

X40J

